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TRANSPORTATION RESEARCH CIRCULAR E-C018

Fourth International Symposium on  
**Highway Capacity**

*Proceedings*

June 27–July 1, 2000  
Maui, Hawaii

Transportation Research Board  
National Research Council



# Fourth International Symposium on Highway Capacity

## *Proceedings*

**Werner Brilon, Editor**

June 27–July 1, 2000  
Maui, Hawaii

**TRANSPORTATION RESEARCH BOARD**  
National Research Council

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## Foreword

The Transportation Research Board (TRB) and its Committee (A3A10) on Highway Capacity and Quality of Service (HCQS) organized an International Symposium on Highway Capacity held from June 27 to July 1, 2000, in Maui, Hawaii. It is the fourth symposium in a series of international conferences. Previous conferences were held in Karlsruhe (1991), Sydney (1994), and Copenhagen (1998).

The symposium provides an opportunity for researchers, engineers, and transportation planners to discuss current developments in highway capacity and level of service. Both new research results and current practices are presented and discussed.

This conference is characterized by two aspects. First, with the release of the new edition of the *Highway Capacity Manual 2000*, this conference marks the beginning of developments beyond the HCM 2000. Thus, one of the special purposes of the conference is consideration of the highway capacity challenges facing transportation professionals in the new century.

The second notable aspect of the conference is its location in the middle of the Pacific hemisphere. The selection of this conference site emphasizes the commitment of TRB and its HCQS committee to an exchange of experiences, a shared understanding of country-specific traffic challenges in different countries, and an increased awareness of solutions that have been found outside the USA. The conference is especially focused on an exchange with Pacific Rim countries.

The symposium is sponsored by the U.S. Transportation Research Board (TRB), Washington, D.C.

The symposium proceedings are a compilation of 42 papers presented at the symposium. These papers represent the work of 73 authors from 11 countries. Before being accepted for the symposium, each paper was reviewed by at least three members or friends of the sponsoring HCQS committee.

Paper authors and presenters, session moderators, and attendees share thanks for the success of the symposium. Acknowledgments go to the members of the program task force Lily Elefteriadou, Doug Harwood, Wayne Kittelson, Hideki Nakamura, Barbara Ostrum, Rikke Rysgaard, Bill Reilly, Stan Teply, Rod Troutbeck, and Wei Lien Liang, and especially to the A3A10 committee chairman, John Zegeer. Special recognition is due to Lily Elefteriadou for guiding the paper review process and to Bill Reilly for organizing additional country reports to be presented at the conference that are not contained in the proceedings. Staff from TRB (Rich Cunard) and Catalina Engineering (Andy Reilly) provided invaluable service in planning and presenting the symposium.

—**WERNER BRILON**  
*Chair, Program Task Force*

## Contents

Historical Overview of the Committee on Highway Capacity and Quality of Service <i>Wayne K. Kittelson</i>	5
Towards an Areawide Service Measure <i>John D. Leonard II and Marcelo Oliveira</i>	17
Traffic Flow Analysis Beyond Traditional Methods <i>Werner Brilon</i>	26
Analysis of the Interrelationship Among Traffic Flow Conditions, Driving Behavior, and Degree of Driver's Satisfaction on Rural Motorways <i>Hideki Nakamura, Koji Suzuki, and Syunsei Ryu</i>	42
Level-of-Service Measure of Road Traffic Based on the Driver's Perception <i>Hideyuki Kita</i>	53
Integration of Safety and the <i>Highway Capacity Manual</i> <i>Gary S. Spring</i>	63
Analysis of Alternative Service Measures for Freeway Facilities <i>Marco E. Navarro and Nagui M. Roupail</i>	73
A Probabilistic Approach to Defining Freeway Capacity and Breakdown <i>Matt Lorenz and Lily Elefteriadou</i>	84
Comparison of Freeway Simulation with INTEGRATION, KRONOS, and KWaves <i>Panos D. Prevedouros and Honglong Li</i>	96
Effect of Environmental Factors on Free-Flow Speed <i>Michael Kyte, Zaher Khatib, Patrick Shannon, and Fred Kitchener</i>	108
An Empirical Study on the Capacity of Bottlenecks on the Basic Suburban Expressway Sections in Japan <i>Hideki Okamura, Shuji Watanabe, and Toru Watanabe</i>	120
Vehicle Classification for Expressway Capacity Analysis in China <i>Rong Jian, Liu Xiaoming, and Ren Futian</i>	130
Macro Speed-Flow Model for On- and Off-Ramps on Multilane Roads <i>Arne Carlsson and Hans-Åke Cedersund</i>	142
Operational Characteristics of Weaving Sections in China <i>Chen Jinchuan, Liu Xiaoming, and Ren Futian</i>	155

Effect of Darkness on the Capacity of Long-Term Freeway Reconstruction Zones <i>Ahmed F. Al-Kaisy and Fred L. Hall</i>	164
Level of Service on Finnish Two-Lane Highways <i>R. Tapio Luttinen</i>	175
2+1-Roads With and Without Cable Barriers: Speed Performance <i>Torsten Bergh and Arne Carlsson</i>	188
Effects of Traffic Condition (v/c) on Safety at Freeway Facility Sections <i>Jaenam Chang, Cheol Oh, and Myungsoon Chang</i>	200
Comparison of the HCM and Singapore Models of Arterial Capacity <i>Piotr Olszewski</i>	209
Multimodal Arterial Level of Service <i>Douglas S. McLeod</i>	221
Evaluation of Macro- and Mesoscopic Models for Congestion Impact Analysis <i>Eugene Merritt and Karl-Lennart Bång</i>	234
Passenger Car Units for Heterogeneous Traffic Using a Modified Density Method <i>Geetam Tiwari, Joseph Fazio, and Sri Pavitravas</i>	246
Discharge Characteristics of Heterogeneous Traffic at Signalized Intersections <i>Pawan Maini and Sarosh Khan</i>	258
Level of Service Classification for Urban Heterogeneous Traffic: A Case Study of Kanapur Metropolis <i>B.R. Marwah and Bhuvanesh Singh</i>	271
Development of Capacity Guidelines for Road Links and Intersections for Henan and Hebei Provinces, PRC <i>Karl-Lennart Bång and Ai Heshen</i>	287
Development of Capacity Estimation Method from Statistical Distribution of Observed Traffic Flow <i>Myungsoon Chang and Youngkol Kim</i>	299
Uncertainty in Saturation Flow Predictions <i>Andrzej P. Tarko and Marian Tracz</i>	310
User Perception of Level of Service at Signalized Intersections: Methodological Issues <i>Kelley Klaver Pécheux, Martin T. Pietrucha, and Paul P. Jovanis</i>	322

Effects of Driver Population on the Traffic Operational Performance of Signalized Intersections <i>Darren Torbic and Lily Elefteriadou</i>	336
Framework to Consider the Effect of Uncertainty in Forecasting the Level of Service of Signalized and Unsignalized Intersections <i>Zaher Khatib and Michael Kyte</i>	348
Capacity of Unsignalized Urban Junctions <i>Janusz Chodur</i>	357
Capacity at All-Way Stop-Controlled and First-In-First-Out Intersections <i>Ning Wu</i>	369
Effect of Radius of Curvature for Right Turning Vehicles on Through Traffic Delay <i>F. Andrew Wolfe and Walter Lane</i>	388
A Further Investigation on Critical Gap and Follow-Up Time <i>Zong Z. Tian, Rod Troutbeck, Michael Kyte, Werner Brilon, Mark Vandehey, Wayne Kittelson, and Bruce Robinson</i>	397
Estimation of Critical Gaps and Follow-Up Times at Rural Unsignalized Intersections in Germany <i>Antje Weinert</i>	409
Capacity and Performance of Roundabouts: A Summary of Recommendations in the FHWA Roundabout Guide <i>Bruce W. Robinson and Lee A. Rodegerdts</i>	422
Effects of OD Flows on Roundabout Entry Capacity <i>Ola Hagrang</i>	434
Unbalanced Traffic Volumes at Roundabouts <i>J.C. Krogscheepers and C.S. Roebuck</i>	446
Probabilistic Models for Pedestrian Capacity and Delay at Roundabouts <i>Heungun Oh and Virginia P. Sisiopiku</i>	459
Use of Simulation to Analysis of Impedance Impact at Unsignalized Intersections <i>Marian Tracz and Stanislaw Gondek</i>	471
Advancing the Frontier of Simulation as a Capacity and Quality of Service Analysis Tool <i>George List and Rod Troutbeck</i>	485
<i>New Transit Capacity and Quality of Service Manual</i> <i>Alan R. Danaher</i>	503
Corresponding Authors Address List	513

[Click here to return](#)

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The National Academy of Sciences is a private, nonprofit, self-perpetuating society of distinguished scholars engaged in scientific and engineering research, dedicated to the furtherance of science and technology and to their use for the general welfare. Upon the authority of the charter granted to it by the Congress in 1863, the Academy has a mandate that requires it to advise the federal government on scientific and technical matters. Dr. Bruce M. Alberts is president of the National Academy of Sciences.

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